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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,232	07/17/2002	Junji Nishigaki	Q68710	4633
23373 75	11/17/2003		EXAMINER	
SUGHRUE MION, PLLC			DENTZ, BERNARD I	
2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1625	9
			DATE MAILED: 11/17/2003	, <i>(</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application No.	Applicant(s)				
7 - M		10/088,232	NISHIGAKI ET AL.				
Office Action Summary		Examiner	Art Unit				
	-	Bernard Dentz	1625				
	The MAILING DATE of this communication						
Period fo			•				
THE I - External after - If the - If NC - Failur - Any r	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION misions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by eply received by the Office later than three months after the department of the provided patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on	29 September 2003.					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) 12 and 13 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-11,14,15 and 17-28 is/are rejected. Claim(s) 16 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
	-	and/or election requirement.					
	on Papers						
10)	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or b) objected to othe drawing(s) be held in abeya orrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
•	inder 35 U.S.C. §§ 119 and 120		`.				
12) \(\times \) 13) \(\times \) 3 4 14) \(\times \)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Bracknowledgment is made of a claim for dorince a specific reference was included in the 7 CFR 1.78. 1) The translation of the foreign language acknowledgment is made of a claim for doreference was included in the first sentence	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)). a list of the certified copies not mestic priority under 35 U.S.C. ne first sentence of the specific e provisional application has b mestic priority under 35 U.S.C.	Application No In received in this National Stage received. § 119(e) (to a provisional application) cation or in an Application Data Sheet. seen received. §§ 120 and/or 121 since a specific				
Attachmen		a all a second					
2) 🔲 Notic	e of References Cited (PTO-892) and 2 - e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N	8) 5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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Applicants have elected the cyanines of Gp. I . Although they have made the election with traverse they give no reasons. Thus the restriction requirement is made final for the reasons of record.

Non-elected claims 12 and 13 and the non-elected parts of claim 1 are withdrawn from consideration.

Claims 1, 3 and 5-10 are rejected under 35 USC 112 for failing to particularly point out the invention. The moiety represented by Q is infinite in scope.

Claims 1, 3 and 5-10 are rejected under the first paragraph of 35 USC 112 for not being enabled. The broadest invention which is enabled is the genus of claim 2 where both heterocyclic groups are azaindoles.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Ficken et al.

British Patent 870,753 cited by applicants. It generically discloses methine and trimethine cyanine dyes of formula I containing a 7-azaindole moiety which may be substituted on the pyridine part thereof with lower alkyl. See p.1 for the formula and the definition of Y and D₁ etc. See specific Examples 15-21 where said pyridine part of the 7-azaindole (termed 3:4-diazaindene –2 in the reference) moiety is substituted by a methyl group. See especially Ex. 21.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Mikhailenko et al, Khimiya Geterotsiklicheskikh Soedinenii.

It discloses compounds of formula VA a and on p. 949 where Z⁺ is as shown. They read on claim 2 when n is 1, m is zero, V4 and V5 form a benzene

Application/Control Number 10/088,232 ring which may be substituted, t is 1, s is zero and V9 and V10 form an optionally substituted benzene ring. The compounds are potentially useful in laser technology.

Claims 1-6, 8-10, 14, 15 and 17-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Usagawa et al, US Patent 5,057,406. It discloses 7azaindole based cyanine dyes wherein the pyridine moiety may be substituted by sulfo, carboxy, hydroxy, halo, cyano etc. See col.3 and col.4, lines 28-31. Note that the pyridine nitrogen is quaternized by an acid or -CH2CH2OR substituent which are reactive substituents which can form a covalent bond, an ionic bond or coordinate bond with a substance to be labeled.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8-11, 14, 15 and 17-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Usagawa et al, supra. If the genus taught by the reference is deemed too large to anticipate any of the above claims an obviousness rejection still pertains. Note that the specific compounds 1, 5, 8, 14, 15, 18, 22, 25, 26, 41 and 44 are homologs of the instant compounds and thus render them obvious.

Compound 44 of the reference renders obvious the genus of claim 11 since the broad disclosure teaches that the pyridine part of the azaindole moiety may be substituted by halo e.g.

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Claim16 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 703 308-4544. The examiner can normally be reached on Mon.-Fri. from 8:30 to 4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman, can be reached on 703 308-4698. The fax phone number for the organization where this application or proceeding is assigned is 703 308-4734.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

B. Dentz

11-17-2003

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